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(54) Title: MURD PROTEIN AND GENE OF *PSEUDOMONAS AERUGINOSA*

(57) Abstract

This invention provides isolated polynucleotides that encode the MurD protein of *Pseudomonas aeruginosa*. Purified and isolated MurD recombinant proteins are also provided. Nucleic acid sequences which encode functionally active MurD proteins are described. Assays for the identification of modulators of the expression of *murD* and inhibitors of the activity of MurD, are also provided.